E. Childs,

Shutter Bolt.

No. 51,803. Patented Jan. 2, 1866.

Fig: 1.

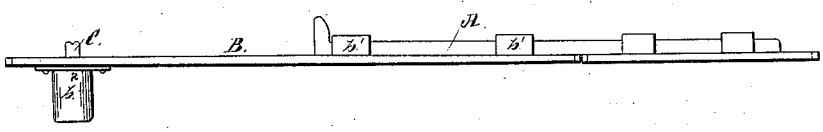
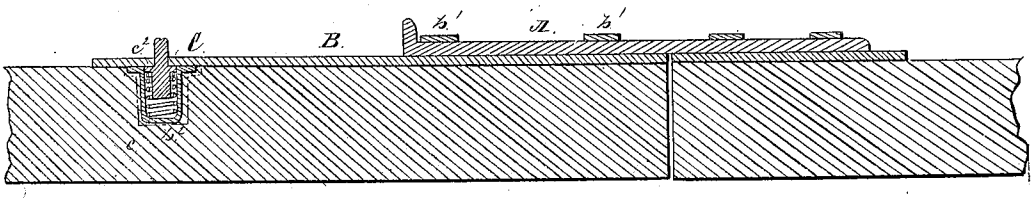


Fig: 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDMUND CHILDS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVED BOLT FOR WINDOW-SHUTTERS.

Specification forming part of Letters Patent No. **51,803**, dated January 2, 1866.

To all whom it may concern:

Be it known that I, EDMUND CHILDS, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Bolts for Window-Shutters, Doors, &c.; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of a shutter-bolt having my improvement applied thereto, and Fig. 2 a central longitudinal vertical section of the same, like letters of reference indicating the same parts when in the different figures.

In painting window-shutters and doors there is always a difficulty in relation to the bolts, first, because the under side of the slide and the inner sides of the staples are inaccessible and cannot be painted, and therefore these parts rust rapidly, being generally made of iron, and disfigure the white paint of the shutters; and, second, because the paint used on those parts of the slide and the strap or plate of the bolt which are in contact with each other cannot dry as rapidly as required for use, and therefore remain sticky and difficult to use for a long time.

The object of my invention is to remedy these difficulties and objections.

It consists, substantially as hereinafter described, in making the stop of the bolt compressible, or so that it can readily be pressed down by hand flush or even with the upper surface of the strap or plate, and thus allow the slide to be either entirely withdrawn and removed from the staples or reinserted, as occasion may require.

In the drawings, A is the slide; B, the plate or strap; *b b'*, the staples, and C the compressible stop.

The stop C is a small bolt, which is supported in a perpendicular position in a suitable hole made through the plate B, by means of a surrounding spiral spring, c', inclosed in a suitable case, b^2, which is fixed permanently to the under side of the plate B. The said stop C has a narrow flange, c^2, which keeps it from rising too high as a stop, and at the same time affords the requisite bearing for the upper end of the spiral spring c', while the lower end of the latter rests on the bottom of the case b^2, which latter is made deep enough to allow of the compression required of the said stop. (See Fig. 2.)

The spiral spring c' should be made of brass, as this metal is less liable to oxidation than iron or steel, and the strength and length of the said spring should be such as will allow the stop C to be easily pressed down by hand flush or even with the upper surface of the plate B, as occasion may require, and it will be readily seen that in thus operating the device the slide A can be either entirely withdrawn and removed or replaced, as occasion may require in painting, and that, therefore, the objectionable difficulties heretofore attending the painting and drying of applied door and shutter bolts will be entirely obviated.

In applying this bolt to a door or shutter a small cavity must first be bored in the wood for the reception of the projecting case b^2, as indicated by the faint lines in Fig. 2.

The device is simple of construction and application, and can be readily applied to bolts in use at a trifling cost.

Having thus fully described my improvement and shown its utility, what I claim as new, of my invention, and desire to secure by Letters Patent, is—

Making the stop C of a bolt for a window-shutter or door compressible, substantially as and for the purposes described.

EDMUND CHILDS.

Witnesses:
BENJ. MORISON,
THOMAS W. WILSON.